

d.) Remarks

Any inquiry concerning these amendments or earlier communications from the applicant should be directed to Chuan Li whose telephone number is (858) 361-7231. The applicant can normally be reached from 8:00 to 6:00 pacific standard time.

The applicant may also be reached at Expression Technologies Inc. at (858) 558-1861 or by fax at (858) 558-1883 or by email at chuanli@exptec.com.

Applicant Name: Chuan Li

Signature: 

Date: July 20, 2006

Remit to:

Expression Technologies Inc.

7908 Avenida Navidad #158

San Diego, CA 92122



Invoice

| Date | Invoice # |
|--------------|-----------|
| June 8, 2006 | 12244 |

Bill To

Accounts Payable

Applied Molecular Evolution

3520 Dunhill Street

San Diego, CA92121

Ship To

Receiving Dept.

Applied Molecular Evolution

11055 Flintkote Avenue

San Diego, CA92121

Attn: Richard Yuan

| Account # | P.O.Number | Ship Date | Term | Due On or Before |
|-----------|------------|--------------|-------------|------------------|
| 220324 | R6076 | June 8, 2006 | Net 30 days | July 8, 2006 |

| Quantity | Catalog No. | Description | Unit Price | Amount |
|----------|-------------|---|------------|--------|
| 2 | 30012 | QuantPro3-200 quantitative protein standard, 1ml/vial | 300.00 | 600.00 |

RECEIVED
7/9/06
CAK #033887
\$ 666.50

| | |
|---------------------|-----------------|
| Subtotal | \$600.00 |
| Sales Tax | \$46.50 |
| Shipping & Handling | \$20.00 |
| Total | \$666.50 |

Tel: 858 558-1861

Fax: 858 558-1883

E-mail: orders@exptec.com



electrophoresis

BenchMark™ Protein Ladder

Description:

The BenchMark™ Protein Ladder is suitable as a molecular weight standard for SDS-PAGE (1). It consists of 15 recombinant proteins ranging in molecular weight from 10 to 220 kDa and can be used with NuPAGE®, Tris-Glycine, or Tricine Gels. The BenchMark™ Protein Ladder offers:

- Extra intense 20- and 50-kDa orientation bands to ensure proper identification of each protein
- Affinity-purified proteins to provide sharp bands and clear background
- A ready-to-use format for direct application to an SDS-PAGE gel
- Detection with Coomassie® Brilliant Blue R-250, silver, or other protein stain
- Sufficient reagent for 100 mini-gel applications or 50 large gel applications with Coomassie® Brilliant Blue R-250-stained gels

Contents and Storage:

Two vials of 250 µl each are provided in loading buffer consisting of 50 mM Tris-HCl (pH 6.8), 2 mM EDTA, 10 mM DTT, 2% (w/v) SDS, 10% (w/v) glycerol, 0.01% (w/v) bromophenol blue. Store at -20°C. Avoid repeated freezing and thawing. Guaranteed stable for 1 year when properly stored.

Product

BenchMark™ Protein Ladder

Reference:

1. Flynn, E. *et al.* (1997) *Focus*® 19: 33.

Coomassie® is a registered trademark of Imperial Chemical Industries PLC.

Figure 1 - 12.5% Tris-Glycine Gel stained with Coomassie® Brilliant Blue R-250

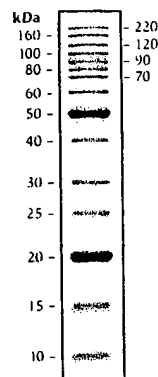
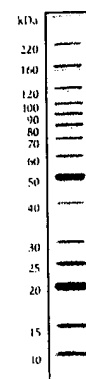
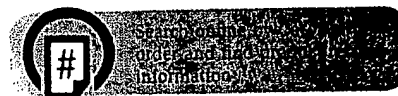


Figure 2 - NuPAGE® Novex 4-12% Bis-Tris Gel w/MES stained with Coomassie® Brilliant Blue R-250



| Quantity | Cat. no. | Price |
|------------|-----------|---------|
| 2 x 250 µl | 10747-012 | \$90.00 |



Mark12™ Unstained Standard

Wide-Range Unstained Standard for SDS-PAGE

Description:

The Mark12™ Standard is an unstained protein standard that allows the closest estimation of molecular weight of your sample protein over a wide molecular weight range. It is supplied ready-to-use with either NuPAGE®, Tris-Glycine, or Tricine Gels. Coomassie®, silver, or other protein staining methods are required to visualize this standard. The Mark12™ Standard offers:

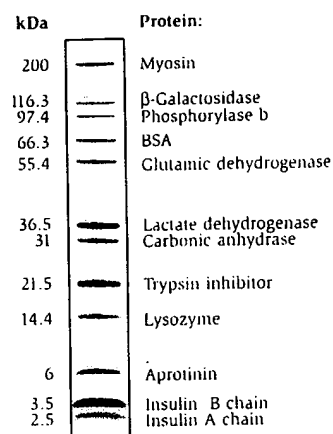
- 12 polypeptides resolved into sharp, tight bands in the range of 2.5 kDa to 200 kDa
- Ideal molecular weight estimation
- A ready-to-use format—no mixing or reducing required

Note: This standard is pre-reduced and does not contain reducing reagents in the loading buffer.

Contents and Storage:

1.0 ml (200 applications of 5 µl each) provided in a plastic vial. Loading Buffer consists of Tris-HCl, Glycerol, SDS, Phenol Red, and Coomassie® Blue G-250. Store at +4°C. Guaranteed stable for 6 months when properly stored.

Figure 1 - Mark12™ Unstained Standard on a NuPAGE® Novex 4-12% Bis-Tris Gel w/MES stained with Coomassie® Blue R-250



Product

Mark12™ Unstained Standard

| Quantity | Cat. no. | Price |
|----------|----------|----------|
| 1 ml | LC5677 | \$106.00 |

Coomassie® is a registered trademark of Imperial Chemical Industries, PLC.

Important Licensing Information

These products may be covered by one or more Limited Use Label Licenses (See Catalog number/Label License Index and Label Licenses in Appendix). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. All products are for research use only. CAUTION: Not intended for human or animal diagnostic or therapeutic uses.



Recombinant Prestained and Unstained Standards

Precision Protein™ Standards

Precision Protein standards, available prestained and unstained, are recombinant proteins of precise, conveniently spaced molecular weights for SDS-PAGE and blotting. Ready-to-load Precision Protein standards range from 10 to 250 kD. The more intense 50 kD protein band serves as a reference band. A proprietary staining method enables prestained standards to be used for more accurate molecular weight estimations, so gels run with either prestained or unstained standards can be compared.

Unique Features of Precision Protein Standards

- Prestained standards migrate to precise molecular weights without mobility shifting — no molecular weight variation from batch to batch
- Unstained standards contain an integral *Strep*-tag amino acid sequence, which has a high binding affinity for StrepTactin conjugates; this detection system allows precise molecular weight determinations directly on western blots

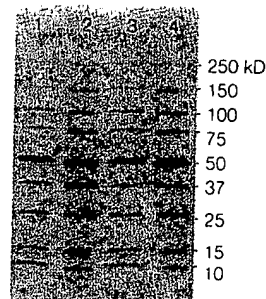
For more information, request bulletin 2564.

Ordering Information

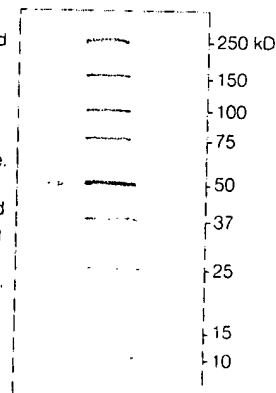
| Catalog # | Description | Price, US \$ |
|------------------------------------|---|--------------|
| Precision Protein Standards | | |
| 161-0362 | Precision Protein Standards, unstained, 1,500 µl, 150 applications | 82.00 |
| 161-0372 | Precision Protein Standards, prestained, 500 µl, 50 applications | 89.00 |
| StrepTactin Conjugates | | |
| 161-0380 | Precision Protein StrepTactin-HRP Conjugate, 0.3 ml, 150 applications | 66.00 |
| 161-0382 | Precision Protein StrepTactin-AP Conjugate, 0.3 ml, 150 applications | 66.00 |

Standards have a shelf life of 1 year at -20°C; shipped at room temperature.

Identical migration of prestained and unstained Precision Protein standards. Unstained (lanes 1, 3) and prestained (lanes 2, 4) standards (10 µl of each) were loaded in alternate lanes of a Ready Gel® 4-20% Tris-HCl precast gel, and stained with Coomassie Blue R-250 stain.



A 4-20% Tris-HCl Ready Gel precast gel was run and stained with Coomassie Blue R-250. Lane 1, prestained Precision Protein standards; lane 2, unstained Precision Protein standards; lane 3, *E. coli* lysate. The gel was blotted onto nitrocellulose, and the unstained standards were detected using the StrepTactin alkaline phosphatase detection system. Note the faint cross-reactivity to the 22 kD biotin carboxyl carrier protein detected in lane 3 of the *E. coli* lysate.¹



Natural Prestained Standards

Prestained standards for SDS-PAGE and western blotting provide a quick and easy way to monitor protein separation during electrophoresis, and to assess transfer efficiency on blots.

Each lot of Kaleidoscope™ and SDS-PAGE prestained standards is individually calibrated for estimating the molecular weights of sample proteins. Use Precision Protein standards for more accurate molecular weight determinations.

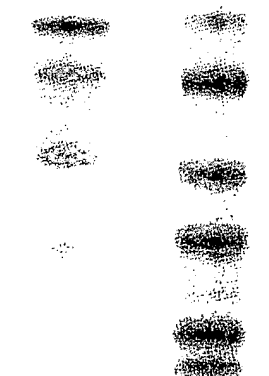
Kaleidoscope Standards

Kaleidoscope standards have individually colored proteins to allow instant orientation on SDS-PAGE gels and western blots. Kaleidoscope polypeptide standards are for use when resolving peptides and small proteins on Tricine gels. Kaleidoscope prestained standards are broad-range protein standards.

Calibrated Molecular Weights of Kaleidoscope Standards

| Protein | Color | Polypeptide Standards | Prestained Standards |
|---------------------------|---------|-----------------------|----------------------|
| Myosin | Blue | — | 216,000 |
| β-Galactosidase | Magenta | — | 132,000 |
| BSA | Green | — | 78,000 |
| Carbonic anhydrase | Violet | 36,400 | 45,700 |
| Soybean trypsin inhibitor | Orange | 26,600 | 32,500 |
| Lysozyme | Red | 16,000 | 18,400 |
| Aprotinin | Blue | 8,400 | 7,600 |
| Insulin | Blue | 3,800 | — |

Molecular weights are of representative lots; actual weights may vary. Lot-specific molecular weights are included with each vial.



Kaleidoscope polypeptide standards Kaleidoscope prestained standards